

In re application of DUJARI
Serial No. 09/703,381

Listing of the Claims:

1-36 (canceled).

37. (currently amended) A computer-implemented method, comprising:
generating a plurality of subdirectory names, wherein each subdirectory
name is random and unique relative to each other name of the plurality;

creating a plurality of ~~randomly-named~~ cache directories, and naming
each according to one for each random subdirectory name generated, such that
each ~~randomly-named~~ cache directory ~~created~~ is uniquely associated with a
~~corresponding randomly-named subdirectory~~ random subdirectory name;

storing a plurality of files under the plurality of randomly-named cache
directories such that a stored file includes a random name in its path unknown to
malicious content and thereby cannot be invoked by the malicious content to
execute, including when ~~each of the plurality of files having~~ the file has a
predictable filename; and

automatically balancing the files among each of the plurality of randomly-
named cache directories.

38. (previously presented) The computer-implemented method of
claim 37 further comprising, receiving information corresponding to a new file to
store.

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39. (previously presented) The computer-implemented method of claim 37, wherein automatically balancing files among each of the plurality of randomly-named cache directories includes determining which of the directories has a least number of files therein.

40. (previously presented) The computer-implemented method of claim 37, wherein automatically balancing files among each of the plurality of randomly-named cache directories includes determining when a randomly-named cache directory has a number of files stored therein that exceeds a limit.

41. (previously presented) The computer-implemented method of claim 37, further comprising, receiving information corresponding to a new file to store, determining that each of the plurality of randomly-named cache directories has a number of files therein that exceeds a limit, and automatically creating at least one new randomly-named cache directory.

42. (previously presented) The computer-implemented method of claim 37 further comprising, for each file, tracking which of the plurality of randomly-named cache directories that file is stored in.

43. (previously presented) The computer-implemented method of claim 37 further comprising, maintaining a count of a number of files stored in each of the plurality of randomly-named cache directories.

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44. (previously presented) The computer-implemented method of claim 37 wherein at least one of the plurality of randomly-named cache directories caches content downloaded from a server.

45. (previously presented) The computer-implemented method of claim 44 further comprising, maintaining a table including server content references and filenames converted therefrom.

46. (previously presented) The computer-implemented method of claim 37, wherein automatically balancing files among each of the plurality of randomly-named cache directories includes determining a randomly-named cache directory having a lowest file count, and moving files from another randomly-named cache directory to the randomly-named cache directory having the lowest file count.

47. (previously presented) The computer-implemented method of claim 37, further comprising, maintaining an index including a directory name for each of the plurality of randomly-named cache directories, and for each directory name, maintaining a file count of a number of files stored therein.

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48. (previously presented) The computer-implemented method of claim 37, further comprising, comparing the number of files in one of the plurality of randomly-named cache directories having the least number of files therein against a predetermined threshold value, and based on the comparison, generating at least one additional randomly-named cache directory.

49. (previously presented) The computer-implemented method of claim 37, further comprising, maintaining an indexed directory table including data corresponding to each of the plurality of randomly-named cache directories therein, and maintaining a table including file information and corresponding file directory information for each file in one of the plurality of randomly-named cache directories.

50. (previously presented) The computer-implemented method of claim 37, wherein automatically balancing files among each of the plurality of randomly-named cache directories includes moving at least one file from one of the plurality of randomly-named cache directories to another of the plurality of randomly-named cache directories following deletion of at least one other file.

51. (currently amended) The computer-implemented method of claim 37, further comprising maintaining a file count of a number of files stored in each of the plurality of randomly-named cache directories, and wherein automatically balancing files among each of the plurality of randomly-named cache directories

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includes moving at least one file out of one of the plurality of randomly-named cache directories to avoid degraded performance when the file count maintained therefor is below achieves a threshold value.

52. (previously presented) The computer-implemented method of claim 51, further comprising removing one of the plurality of randomly-named cache directories based on the file count maintained therefor.

53-67. (canceled)

68. (currently amended) A computer-readable medium having computer-executable instructions for:

generating a plurality of subdirectory names, wherein each subdirectory name is random and unique relative to each other name of the plurality;

creating a plurality of ~~randomly-named~~ cache directories, and naming each according to one for each random subdirectory name generated, such that each ~~randomly-named~~ cache directory ~~created~~ is uniquely associated with a ~~corresponding randomly-named subdirectory~~ random subdirectory name;

storing a plurality of files under the plurality of randomly-named cache directories such that a stored file includes a random name in its path, including when that stored file has ~~each of the plurality of files having a predictable~~ filename; and

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automatically balancing the files among each of the plurality of randomly-named cache directories such that a count associated with the number of files in each cache directory remains below a threshold count, to avoid degraded performance.

69. (previously presented) The computer-readable medium of claim 68, further comprising computer-executable instructions for comparing the number of files in one of the plurality of randomly-named cache directories having the least number of files therein against a predetermined threshold value, and based on the comparison, generating at least one additional randomly-named cache directory.

70. (previously presented) The computer-readable medium of claim 68, further comprising computer-executable instructions for maintaining an indexed directory table including data corresponding to each of the plurality of randomly-named cache directories therein, and maintaining a table including file information and corresponding file directory information for each file in one of the plurality of randomly-named cache directories.

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71. (previously presented) The computer-readable medium of claim 68 wherein automatically balancing files among each of the plurality of randomly-named cache directories includes moving at least one file from one of the plurality of randomly-named cache directories to another of the plurality of randomly-named cache directories following deletion of at least one other file.

72. (previously presented) The computer-readable medium of claim 68 wherein automatically balancing files among each of the plurality of randomly-named cache directories includes determining which of the directories has a least number of files therein.